

International Application No  
PCT/EP2004/012421

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61K48/00 A61K39/21 A61K9/50 A61P37/04

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, CHEM ABS Data, PAJ, MEDLINE, EMBASE, RAPRA

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| X          | LAUS M ET AL: "Microspheres with hydrophilic and protein-friendly surface as protein delivery systems prepared by dispersion polymerization"<br>JOURNAL OF CONTROLLED RELEASE,<br>vol. 72, no. 1-3,<br>14 May 2001 (2001-05-14), pages 280-283,<br>XP002321952<br>& SIXTH EUROPEAN SYMPOSIUM ON CONTROLLED<br>DRUG DELIVERY; NOORDWIJK AAN ZEE,<br>NETHERLANDS; APRIL 12-14, 2000<br>ISSN: 0168-3659<br>page 280, last paragraph<br>page 281, lines 7-17,22-27; figure 1<br>page 283, lines 1-6<br>-----<br>-/-- | 1-7,10,<br>11,14      |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- \*&\* document member of the same patent family

Date of the actual completion of the international search

22 March 2005

Date of mailing of the international search report

12/04/2005

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International Application No  
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| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT |   |                       |
|--|---|-----------------------|
| Category *   | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
| X  | DINELLA, C. ET AL: "Immobilization and reactivity of enzymes on functional particles prepared by dispersion polymerization"<br>MACROMOL. RAPID COMMUN. 15(12),<br>P.909-915, 7P,3F,1T,17L CODEN: MRCOE3,<br>1994, XP002321953<br>page 909, last paragraph<br>scheme 1<br>page 910, lines 9-16<br>page 910, last paragraph - page 911, line 30 | 1-4,6,7,<br>10,11,14  |
| X  | DE 101 18 852 A1 (FRICKER, GERT; FLAIG, RUEDIGER MARCUS)<br>31 October 2002 (2002-10-31)<br>paragraphs '0054!', '0082!<br>figure 1  | 1,12,14,<br>15        |
| Y  | US 5 334 394 A (KOSOVSKY ET AL)<br>2 August 1994 (1994-08-02)<br>abstract<br>column 2, line 55 - column 3, line 5<br>column 3, lines 31-43<br>column 4, lines 36-40<br>column 5, lines 19-24  | 1,3,7,8,<br>10-16     |
| Y  | DE 30 48 883 A1 (BOEHRINGER MANNHEIM GMBH;TSCHSLOWAKISCHE AKADEMIE DER WISSENSCHAFT) 15 July 1982 (1982-07-15)<br>page 10, lines 1-7,18-32<br>page 13, lines 5-16   | 1-16                  |
| Y  | EP 0 240 424 A (UNIVERSITE DE RENNES I)<br>7 October 1987 (1987-10-07)<br>abstract<br>page 2, line 59 - page 3, line 40<br>page 5, lines 6-17<br>page 5, lines 31-37<br>examples  | 1-16                  |

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# INTERNATIONAL SEARCH REPORT

International application No.  
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## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claims 12, 13 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/012421

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Information on patent family members

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